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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/575,118	05/23/2000	Paul Lapstun	NPA012US	9159

7590 05/07/2003

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EXAMINER

JORGENSEN, LELAND R

ART UNIT	PAPER NUMBER
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2675

DATE MAILED: 05/07/2003

14

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.

09/575,118

Applicant(s)

LAPSTUN ET AL.

Examiner

Leland R. Jorgensen

Art Unit

2675

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 25 March 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) ☐ they raise the issue of new matter (see Note below);
 - (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____

3. ☐ Applicant's reply has overcome the following rejection(s): _____.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Attached.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 1 - 8, 10 - 23, 25 - 29, and 31 - 60.Claim(s) withdrawn from consideration: 9, 24, and 30.

8. ☐ The proposed drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-449) Paper No(s): _____.
10. ☐ Other: _____


STEVEN SARASSUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Response to Arguments

Applicant's arguments filed 25 March 2003 have been fully considered but they are not persuasive.

The arguments do not overcome the rejections. For example, applicant objected to the rejection of claim 1. Applicant claims that Cass does not disclose any interactive element. Applicant argues, "At no stage does the user in the Cass arrangement 'interact' with any interactive elements by using the scanner. Instead, the user simply makes a cross mark on the page using an ordinary pen and the Cass scanner scans in the whole page and interprets those markings." Amendment B, page 3.

During examination, the claims must be interpreted as broadly as their terms reasonably allow. This means that the words of the claim must be given their plain meaning unless applicant has provided a clear definition in the specification. The words in a claim are generally not limited in their meaning by what is shown or disclosed in the specification. It is only when the specification provides definitions for terms appearing in the claims that the specification can be used in interpreting claim language. MPEP 2111.01.

Webster's Dictionary defines interactive as "1: mutually or reciprocally active 2. of, relating to, or being a two-way electronic communication system (as a telephone, cable television, or a computer) that involves a user's orders (as for information or mechanidise) or responses (as to a poll)." Merriam-Webster's Collegiate Dictionary, 10th Ed. (Springfield, MA: Merriam-Webster, Inc. 1999), p. 608. The specifications teach,

The present invention relates generally to methods, systems and apparatus for interacting with computers by means of printed matter and sensing devices. More particularly, the invention relates to directory navigation utilizing such mehtods, systems and apparatus.

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The invention has been developed primarily to allow a large number of distributed users to interact with networked information via printed matter and to obtain interactive printed matter on demand via high-speed networked color printers. Although the invention will largely be described herein with reference to this use, it will be appreciated that the invention is not limited to use in this field.

Specification, page 1. The specification add,

It is an object of the invention to combine advantages of printed and online information, to facilitate quick and easy online directory navigation via a printed document.

Specification, page 2. The specification notes that an "interactive element" may a text field on a printed page. Specification, page 10. A sensor reads a marking made by the user in the text field. Thus, the user who interacts by makes a cross mark on the text field, the interactive element, by using an ordinary pen and using the Cass scanner to scan in the whole page and interpret those markings appears to be doing what is described by claim 1.

d sometimes suggests a lack of
th words). ALERT stresses quick-
ing (alert to new technology).
finding answers in debate or in
anger or challenge (no match for

·gen(1)-\ n [Russ *intelligentsiya*, intellectuals who form an artistic

ME. fr. *L. intelligibilis*, fr. *intel-*
ne intellect only 2 : capable of
— *in-tel-li-gi-bil-i-ty* \-te-lə-jə-
te-lə-jə-bəl-nəs/ *n* — *in-tel-li-gi-*

\s\ n (15c): lack of moderation;
 intoxicants
 ntemperat. fr. L *intemperatus*, fr.
 temper] (14c): not temperate (~
 se of intoxicating liquors — in-
 te-ness n

INTEND, fr. MF *entendre* to pur-
direct, aim at, fr. *in-* + *tendere* to
to direct the mind on 2 archaic
GNIFY. MEAN **b**: to refer to 4 a
1: PLAN **b**: to design for a speci-
OUT. START — **in-tend-er** *n*

- intend
 - 1: *L. intendere, intendens*, prp. of *intendere*: an administrative official (as in the past) in Spanish, or Portuguese monarchies
 - 2: *intend* (as in *intendancy*)
 - 3: *intend* (as in *intendancy*)
 - 4: *intend* (as in *intendancy*)
 - 5: *intend* (as in *intendancy*)
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 - 97: *intend* (as in *intendancy*)
 - 98: *intend* (as in *intendancy*)
 - 99: *intend* (as in *intendancy*)
 - 100: *intend* (as in *intendancy*)

:d; -at-ing [²*in-* + *L* *tener* soft] to make tender: SOFTEN — *in-ten-*

2, fr. *L. intensus*, fr. pp. of *intendere*
to go in an extreme degree (the excited
or showing a characteristic in a
ed by or expressive of great
tion (~ effort) 3 a : exhibiting
se (an ~ student) b : deeply fel
n
1 (1835) : one that intensifies; a

d; -fy-ing vt (1817) 1: to make
HEN 2 a: to increase the density
(age) by chemical treatment b: to
to become intense or more intense
- **in-ten-si-fi-ca-tion** \-ten(t)s-i-

1: INTENSITY 2: CONNOTATION
 n(t)-shə-n'əl *adj* — in-ten-sion-əl
 in-ten-sion-əl-ly \-'tench-nəl

ies (1665) **1**: the quality or state of being intense; the degree of strength, force, energy, or intensity (as force or energy) per unit of area
2: SATURATION
3: of, relating to, or marked by intensity
4: highly concentrated (~ study)
5: esp.: tending to give force or energy to
6: of or relating to a method designed to reduce the expenditure of more capital and labor in farming) — **in-ten-sive-ly** ad-

linguistic element
medical equipment and services
(heart patients in intensive care)

1 a : the act or fact of intending to commit a wrongful or criminal act with ~) b : the state of mind with intent
2 : a usu. clearly formulated intention
ANAL. SIGNIFICANCE b : CONNOTATION

intendere] (14c) 1 : directed w
CENTRATED 2 : having the mi
something or some end or purp
v — **in-tent-ness** n

1 : a determination to act
SIGNIFICANCE 3 a : what one
: object for which a prayer, mass,
is or manner of healing of indi
cept considered as the product
knowledge 6 pl : purpose with

DESIGN, AIM, END, OBJECT, OBJECTIVE, to accomplish or attain. INTENTION is in mind to do or bring about. INTENT suggests clearer formulation (e.g. *intent* of the statute). PURPOSE is in being successful was her purposefully calculated plan (the order of the day). AIM adds to these implications of accomplishing (her aim was to stress the intended effect of action the action or means as such (will be intended). OBJECT may equal END but not

often applies to a more individually determined wish or need (his constant object was the achievement of pleasure). OBJECTIVE implies something tangible and immediately attainable (their objective is to seize the oil fields). GOAL suggests something attained only by prolonged effort and hardship (worked ten years to reach her goals).

in-ten-tion-ál *in-tench-nál, -ten(t)-shá-n'ál* *adj* (ca. 1727) 1: done by intention or design: **INTENDED** (~ damage) 2 a: of or relating to epistemological intention b: having external reference *syn* **see** VOL-UNTARY

in-ten-tion-ál-ly *in-ten(t)-shá-n'a-l-ē* *adv*

in-ter *in-tench-n-ē, -ten(t)-shá-n-ē* *adv*

in-ter *in-tar' v* **in-ter-réd**; **in-ter-ring** [ME *enteren*, fr. MF *enterrer*, fr. (assumed) VL *interrare*, fr. *in- + L terra* earth — more at TERRACE] (14c): to deposit (a dead body) in the earth or in a tomb

inter- prefix [ME *inter-, enter-,* fr. MF & L; MF *inter-, entre-,* fr. L *inter-* fr. *inter-* akin to OHG *untar* among, Gk *enteron* intestine, OE *in* in] 1: between: among: in the midst (*intercrop*) (*interpenetrate*) (*interstellar*) 2: reciprocal (*interrelation*): reciprocally (*intermarry*) 3: located between (*interface*) 4: carried on between (*international*) 5: occurring between (*interborough*): intervening (*interglacial*) 6: shared by, involving, or derived from two or more (*interfaith*) 7: between the limits of: within (*interpolitical*) 8: existing between (*intercommunal*) (*intercompany*)

Inter-Afri-can
 Inter-agency
 Inter-al-lic
 Inter-Amer-i-can
 Inter-an-i-ma-tion
 Inter-an-nu-al
 Inter-as-so-ci-a-tion
 Inter-at-om-ic
 Inter-avai-lab-i-lity
 Inter-bank
 Inter-be-ain
 Inter-bed
 Inter-be-hav-i-or
 Inter-be-hav-i-or-al
 Inter-bor-ough
 Inter-branch
 Inter-call-bra-tion
 Inter-cam-pus
 Inter-caste
 Inter-cell
 Inter-cell-u-lar
 Inter-chain
 Inter-chan-nel
 Inter-chro-mo-som-al
 Inter-church
 Inter-city
 Inter-class
 Inter-club
 Inter-clus-ter
 Inter-coast-al
 Inter-col-o-nial
 Inter-com-mu-nal
 Inter-com-mu-ni-ty
 Inter-com-pa-ny
 Inter-com-pare
 Inter-com-pari-son
 Inter-com-pre-hen-si-bi-lity
 Inter-con-po-rtate
 Inter-con-re-late
 Inter-cor-re-la-tion
 Inter-cort-i-cal
 Inter-count-ry
 Inter-county
 Inter-couple
 Inter-cra-ter
 Inter-crystal-line
 Inter-cul-tu-r-al
 Inter-cul-tu-r-al-ly
 Inter-cul-ture
 Inter-dealer
 Inter-de-nom-i-na-tion-al
 Inter-de-part-men-tal
 Inter-de-part-men-tal-ly
 Inter-depend
 Inter-de-pen-dence
 Inter-de-pen-den-cy
 Inter-de-pen-dent
 Inter-de-pen-dent-ly
 Inter-dia-lec-tal
 Inter-district
 Inter-divi-sion-al
 Inter-do-min-ion
 Inter-electrode
 Inter-electron
 Inter-electron-ic
 Inter-epi-demic
 Inter-eth-nic
 Inter-fac-ulty
 Inter-fam-ily
 Inter-fiber
 Inter-firm
 Inter-flow
 Inter-flu-vid
 Inter-fold
 Inter-frat-er-ni-ty
 Inter-gang
 Inter-gen-er-a-tion
 Inter-gen-er-a-tion-al
 Inter-gen-etic
 Inter-graft
 Inter-group-ular
 Inter-group
 Inter-hem-i-spher-ic
 Inter-in-di-vid-u-al
 Inter-in-du-s-try
 Inter-in-flu-ence
 Inter-in-stit-u-tion-al
 Inter-in-volve
 Inter-ion-ic
 Inter-is-land
 Inter-juris-dic-tion-al
 Inter-lu-a-cis-trine
 Inter-lam-i-nar
 Inter-lay
 Inter-layer
 Inter-lead
 Inter-lit-brary
 Inter-lin-er
 Inter-lob-ular
 Inter-lo-cal
 Inter-male
 Inter-mar-gin-al
 Inter-mem-brane
 Inter-men-stru-al
 Inter-min-ist-er-ial
 Inter-mit-totic
 Inter-mo-le-cu-lar
 Inter-mo-le-cu-lar-ly
 Inter-moun-tain
 Inter-mu-clear
 Inter-mu-cle-on
 Inter-mu-cle-on-ic
 Inter-mu-cle-o-tide
 Inter-ob-serv-er
 Inter-ocean
 Inter-ocean-ic
 Inter-of-fice
 Inter-op-er-a-tive
 Inter-or-bit-al
 Inter-or-gan
 Inter-or-ga-ni-z-a-tion-al
 Inter-pan-dem-ic

in-ter-par-ish
in-ter-pa-ro-chi-al
in-ter-par-ox-ys-mal
in-ter-par-ti-cle
in-ter-par-ty
in-ter-per-cep-tual
in-ter-per-me-ate
in-ter-pha-lan-geal
in-ter-plan-e-tary
in-ter-plu-vial
in-ter-point
in-ter-pop-u-la-tion
in-ter-pop-u-la-tion-al
in-ter-pro-fes-sion-al
in-ter-pro-vin-cial
in-ter-psy-chic
in-ter-re-gion-al
in-ter-re-li-gious
in-ter-re-nal
in-ter-row
in-ter-school
in-ter-sec-tion-al
in-ter-seg-ment
in-ter-seg-men-tal
in-ter-sen-sory
in-ter-so-ci-etal
in-ter-so-ci-ety
in-ter-stage
in-ter-sta-tion
in-ter-stim-u-la-tion
in-ter-stim-u-lus
in-ter-strain
in-ter-strand
in-ter-strat-i-fi-ca-tion
in-ter-strat-ify
in-ter-sub-sti-tut-abil-i-ty
in-ter-sub-sti-tut-able
in-ter-sys-tem
in-ter-term
in-ter-ter-mi-nal
in-ter-ter-ri-to-ri-al
in-ter-trans-lat-able
in-ter-trial
in-ter-trib-al
in-ter-troop
in-ter-un-ion
in-ter-unit
in-ter-uni-ver-si-ty
in-ter-ur-ban
in-ter-val-ley
in-ter-ven-trie-u-lar
in-ter-ver-te-bral
in-ter-vil-lage
in-ter-vis-i-bil-i-ty
in-ter-vis-i-ble
in-ter-vis-i-ta-tion
in-ter-war
in-ter-work
in-ter-work-ing
in-ter-zon-al
in-ter-zone

intercalare] (161) **1** a: inserted in a calendar (an ~ day) b of a year: containing an intercalary period (as a day or month) **2**: inserted between other things or parts: **INTERPOLATED**

in-ter-ca-late \in-tər-kā-lāt/ *vi* -lat-ed; -lat-ing [L *intercalatus*, pp. of *intercalare*, fr. *inter-* + *calare* to proclaim, call — more at LOW] (1603) **1**: to insert (as a day) in a calendar **2**: to insert between or among existing elements or layers *syn* see **INTRODUCE** — **in-ter-ca-la-tion** \-tər-kā-lā-shən/ *n*

in-ter-cede \in-tər-séd/ *vi* -ced-ed; -ced-ing [L *intercedere*, fr. *inter-* + *cedere* to go] (1597): to intervene between parties with a view to reconciling differences: **MEDIATE** *syn* see **INTERPOSE** — **in-ter-ceder** *n*

in-ter-cen-sal \in-tər-sen(t)-səl/ *adj* (1887): occurring between censuses (~ estimates) (~ period)

in-ter-cept \in-tər-sept/ *vi* [ME, fr. L *interceptus*, pp. of *intercipere*, fr. *inter-* + *capere* to take, seize — more at **HEAVE**] (15c) **1** obs: **PREVENT**, **HINDER** **2** a: to stop, seize, or interrupt in progress or course or before arrival **b**: to receive (a communication or signal directed elsewhere) *usu.* secretly **3** obs: to interrupt communication or connection with **4**: to include (part of a curve, surface, or solid) between two points, curves, or surfaces (<the part of a circumference ~ed between two radii) **5** a: to gain possession of (an opponent's pass) **b**: to intercept a pass thrown by (an opponent)

in-ter-cept \in-tər-sept/ *n* (1821) **1**: the distance from the origin to a point where a graph crosses a coordinate axis **2**: **INTERCEPTION**; *esp*: the interception of a missile by an interceptor or of a target by a missile **3**: a message, code, or signal that is intercepted (as by monitoring radio communications)

in-ter-ception \in-tər-sep-shən/ *n* (15c) **1** a: the action of intercepting **b**: the state of being intercepted **2**: something that is intercepted; *esp*: an intercepted forward pass

in-ter-ceptor *also* **in-ter-cepter** \in-tər-sep-tər/ *n* (1598): one that intercepts; *specif*: a light high-speed fast-climbing fighter plane or missile designed for defense against raiding bombers or missiles

in-ter-ces-sion \in-tər-se-shən/ *n* [ME, fr. MF or L MF, fr. L *intercessio*-, *intercessio*, fr. *intercedere*] (15c) **1**: the act of interceding **2**: prayer, petition, or entreaty in favor of another — **in-ter-ces-sion-al** \-se-sh-nəl, -se-sh-nəl/ *adj* — **in-ter-ces-sor** \-se-sər/ *n* — **in-ter-ces-so-ry** \-se-srē, -se-so-ri/ *adj*

in-ter-change \in-tər-chānj/ *vb* [ME *entrechaungen*, fr. MF *entrechanger*, fr. OF, fr. *entre* -inter- + *changer* to change] *vi* (14c) **1**: to put each of (two things) in the place of the other **2**: **EXCHANGE** ~ *vi*: to change places mutually — **in-ter-chang-er** *n*

in-ter-change \in-tər-chānj/ *n* (15c) **1**: the act, process, or an instance of interchanging: **EXCHANGE** **2**: a junction of two or more highways by a system of separate levels that permit traffic to pass from one to another without the crossing of traffic streams

in-ter-change-able \in-tər-chān-jə-bəl/ *adj* (14c): capable of being interchanged; *esp*: permitting mutual substitution (~ parts) — **in-ter-change-abil-i-ty** \-chān-jə-bi-lə-tē/ *n* — **in-ter-change-able-ness** \-chān-jə-bəl-nəs/ *n* — **in-ter-change-ably** \-bi-ə/ *adv*

in-ter-col-le-giate \in-tər-kə-lē-jāt, -jē-t/ *adj* (ca. 1874): existing, carried on, or participating in activities between colleges (~ athletics)

in-ter-co-lum-ni-a-tion \in-tər-kə-ləm-nē-ā-shən/ *n* [L *intercolumnium* space between two columns, fr. *inter-* + *columna* column] (1624) **1**: the clear space between the columns of a series **2**: the system of spacing of the columns of a colonnade

in-ter-com \in-tər-kām/ *n* [short for *intercommunication system*] (1940): a two-way communication system with a microphone and loudspeaker at each station for localized use

in-ter-com-mu-ni-cate \in-tər-kə-myū-nā-kāt/ *vi* (1586) **1**: to exchange communication with one another **2**: to afford passage from one to another — **in-ter-com-mu-ni-ca-tion** \-myū-nā-kā-shən/ *n*

intercommunication system *n* (1911): **INTERCOM**

in-ter-com-mu-ni-on \in-tər-kə-myū-nyən/ *n* (1921): interdenominational participation in communion

in-ter-con-nect \in-tər-kə-nekt/ *vi* (1865): to connect with one another ~ *vi*: to be or become mutually connected — **in-ter-con-nc-tion** \-nek-shən/ *n*

interconnected *adj* (1865) **1**: mutually joined or related (~ highways) (~ political issues) **2**: having internal connections between the parts or elements — **in-ter-con-nect-ed-ness** *n*

in-ter-con-ti-nen-tal \in-tər-kən-tī-nen-tl/ *adj* (ca. 1855) **1**: extending among continents or carried on between continents **2**: capable of traveling between continents (~ ballistic missile)

in-ter-con-ver-sion \in-tər-kən-vər-zhən, -shən/ *n* (1865): mutual conversion (~ of chemical compounds) — **in-ter-con-vert** \-vurt/ *vi* — **in-ter-con-vert-ibil-i-ty** \-vər-tə-bi-lə-tē/ *n* — **in-ter-con-vert-ible** \-vər-tə-bəl/ *adj*

in-ter-cool-er \in-tər-kū-lər/ *n* (1899): a device for cooling a fluid (as air) between successive heat-generating processes

in-ter-cos-tal \in-tər-kās-tl/ *adj* [ML *intercostalis*, fr. L *inter-* + *costa* rib — more at **COAST**] (1597): situated or extending between the ribs (~ spaces) (~ muscles) — **intercostal** *n*

in-ter-course \in-tər-kōrs, -kōrs/ *n* [ME *intercourse*, prob. fr. MF *intrecours*, fr. ML *intercursum*, fr. L, act of running between, fr. *intercurrere* to run between, fr. *inter-* + *currere* to run — more at **CAR**] (15c) **1**: connection or dealings between persons or groups **2**: exchange esp. of thoughts or feelings: **COMMUNION** **3**: physical sexual contact between individuals that involves the genitalia of at least one person (heterosexual ~) (anal ~) (oral ~); *esp*: **SEXUAL INTERCOURSE** **1**

in-ter-crop \in-tər-krāp, -tə/ *vi* (1898): to grow a crop in between (another) ~ *vi*: to grow two or more crops simultaneously (as in alternate rows) on the same plot — **in-ter-crop** \in-tər-krāp/ *n*

in-ter-cross \in-tər-kros/ *vb* (1711): **CROSS**

in-ter-cross \in-tər-kros/ *n* (1859): an instance or a product of crossbreeding

\ə' abut \ʔ kitten, F table \ər\ further \ə' ash \ā' ace \ā' mop, mar
 \aʊ' out \ch\ chin \e' bet \ē' easy \g\ go \i' hit \I' ice \j\ job
 \ŋ\ sing \ɔ' go \ó' law \ói' boy \th\ thin \t̥h\ the \ü' loot \ù' foot
 \y\ yet \zh\ vision \ä, k, ŋ, æ, œ, ue, ū, see Guide to Pronunciation

Merram-Webster's Collegiate Dictionary, 10th Ed.